

COSMOS 1970-1972 ULLAGE MOTOR

1988-085G

19537

SATELLITE DATA

TYPE: Mission Related Debris
OWNER: CIS
LAUNCH DATE: 16 Sep 1988
DRY MASS (KG): 55
MAIN BODY: Ellipsoid; 0.6 m diameter x 1.0 m length
MAJOR APPENDAGES: None
ATTITUDE CONTROL: None
ENERGY SOURCES: On-board propellants

EVENT DATA

DATE: 9 Mar 1999 LOCATION: Unknown
TIME: Unknown ASSESSED CAUSE: Propulsion
ALTITUDE: Unknown

POST-EVENT ELEMENTS

EPOCH: 99067.36656961 MEAN ANOMALY: 189.8576
RIGHT ASCENSION: 108.7309 MEAN MOTION: 4.28860956162171
INCLINATION: 64.6425 MEAN MOTION DOT/2: .00000813
ECCENTRICITY: .5827119 MEAN MOTION DOT DOT/6: 00000-0
ARG. OF PERIGEE: 176.8483 BSTAR: .0022335

DEBRIS CLOUD DATA

MAXIMUM ΔP : Unknown
MAXIMUM ΔI : Unknown

COMMENTS

This is the 19th event of the Proton Block DM SOZ Ullage Motor class identified to date; it is the eighth associated with a GLONASS mission. This mission was conducted before the engineering defect was identified and passivation measures implemented. In this orbit, debris may be long-lived but hard to track. 17 debris objects were detected.

REFERENCE DOCUMENT

"Abandoned Proton Ullage Motors Continue to Create Debris", [The Orbital Debris Quarterly News](#), NASA JSC, April 1999.